

Title (en)
FLEXIBLE PISTON ROD

Title (de)
BIEGSAME KOLBENSTANGE

Title (fr)
TIGE DE PISTON FLEXIBLE

Publication
EP 1583573 A2 20051012 (EN)

Application
EP 03767479 A 20031219

Priority
• DK 0300915 W 20031219
• DK PA200202007 A 20021223

Abstract (en)
[origin: US7625358B2] A flexible piston rod includes a piston and a row of elements, the top surface of one element being connected to the bottom surface of an adjacent element by a hinge that allows the two adjacent elements to pivot from a first position, where a portion of the top surface of one element abuts a corresponding portion of the bottom surface of the adjacent element and corresponding to a rectilinear, relatively stiff configuration of the piston rod, to a second position wherein the top surface of one element is spaced from the bottom surface of the adjacent element and corresponding to a curved configuration of the piston rod. Each element has cylindrical surface portions incorporating a thread for meshing with a corresponding thread of an actuator for displacing the piston rod longitudinally.

IPC 1-7
A61M 5/315

IPC 8 full level
A61M 5/145 (2006.01); **A61M 5/315** (2006.01)

CPC (source: EP US)
A61M 5/14244 (2013.01 - EP US); **A61M 5/14566** (2013.01 - EP US); **A61M 5/14546** (2013.01 - EP US); **A61M 2005/31518** (2013.01 - EP US); **A61M 2205/0266** (2013.01 - EP US)

Cited by
WO2013153041A2; WO2015059192A1; US10010681B2; US10881811B2; US11878153B2

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